

L Number	Hits	Search Text	DB	Time stamp
1	12	(US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$).did. (US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$).did.) and (upper low\$4 high\$4) with pitch with (limit\$4 threshold)	USPAT	2004/06/28 09:00
2	2	(US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$).did.) and (upper low\$4 high\$4) with pitch with (limit\$4 threshold) and display\$4	USPAT	2004/06/28 09:01
3	1	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$).did.) and (upper low\$4 high\$4) with pitch with (limit\$4 threshold) and display\$4	USPAT	2004/06/28 09:01
4	1	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$).did.) and ((upper low\$4 high\$4) with pitch with (limit\$4 threshold) and display\$4) and (display image) with (chang\$4 manipulat\$4 alter\$4) same pitch	USPAT	2004/06/28 11:10
5	2	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$).did.) and (extract\$4 with (pitch timbre tone)) and (pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold)	USPAT	2004/06/28 11:25
6	514	(pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4)	USPAT	2004/06/28 12:49
7	231	(extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold))	USPAT	2004/06/28 12:48
8	7	((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4)) and ((extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold)))	USPAT	2004/06/28 11:27
9	4	((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4)) and ((extract\$4 with (pitch timbre tone) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold)))) and (sound audi\$4 voice music)	USPAT	2004/06/28 12:49
10	0	((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4)) and ((extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold)))) and 704.ccls.	USPAT	2004/06/28 11:32
11	4	(((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4)) and ((extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold)))) and (sound audi\$4 voice music)) (((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4)) and ((extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4) with (upper lower higher limit threshold)))) and 704.ccls.) and (@ad @pd) <= 19990810	USPAT	2004/06/28 12:48
12	253	(extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6)) with (upper lower higher limit threshold))	USPAT	2004/06/28 13:44
15	7	((extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6)) with (upper lower higher limit threshold)) and ((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6))	USPAT	2004/06/28 12:49
14	514	(pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)	USPAT	2004/06/28 13:43
16	4	((extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6)) with (upper lower higher limit threshold)) and ((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and (sound audi\$4 voice music) and (@ad @pd @prad) <= 19990810	USPAT	2004/06/28 13:45

Search History 6/28/04 4:27:15 PM Page 1  
C:\APPS\EAST\Workspaces\09371760.wsp

18	4	((( extract\$4 with (pitch timbre tone)) and ((pitch timbre tone) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and ((pitch timbre tone) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and (sound audi\$4 voice music) and (@ad @pd @prad)<=19990810) and (amplitude volume intensity level) with (pitch tone timbre)	USPAT	2004/06/28 13:40
19	4713	(amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)	USPAT	2004/06/28 13:44
20	3531	(extract\$4 with (amplitude volume intensity level)) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold))	USPAT	2004/06/28 15:41
21	99	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) )	USPAT	2004/06/28 13:45
22	29	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and (sound audi\$4 voice music) and (@ad @pd @prad)<=19990810	USPAT	2004/06/28 13:47
23	18	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and (audi\$4 voice music) and (@ad @pd @prad)<=19990810	USPAT	2004/06/28 13:47
24	64	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and (audi\$4 speech song sing\$4 voice music) and (@ad @pd @prad)<=19990810	USPAT	2004/06/28 13:48
25	61	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and (speech song sing\$4 voice music) and (@ad @pd @prad)<=19990810	USPAT	2004/06/28 13:48
26	19	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and (audi\$4 speech song sing singing voice music) and (@ad @pd @prad)<=19990810	USPAT	2004/06/28 13:49
27	6	((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and ( extract\$4 with (amplitude volume intensity level) and ((amplitude volume intensity level) with (set\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) ) and (speech song sing singing voice music) and (@ad @pd @prad)<=19990810	USPAT	2004/06/28 14:55
28	4	("5025703" "5121669").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; DERWENT	2004/06/28 14:27
29	22	(US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038858-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981960-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$ dir. or (US-5025703-\$ or US-5121669-\$) dir.)	USPAT;	2004/06/28 15:40

Search History 6/28/04 4:27:15 PM Page 2  
C:\APPS\EASt\Workspaces\09371760.wsp

# Best Available Copy

30	19	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and (hysteresis (chang\$4 adjust\$4 setting set manipulat\$4 alter adjust) ) same (amplitude volume intensity level)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 15:43
31	8	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and (hysteresis (chang\$4 adjust\$4 setting set manipulat\$4 alter adjust) ) same (amplitude volume intensity level) with threshold	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 15:46
32	1	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and (hysteresis (chang\$4 adjust\$4 setting set manipulat\$4 alter adjust) ) same (amplitude volume intensity level) with threshold with volume	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 15:47
33	2	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and threshold with variable	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 15:59
34	2	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and threshold with (variable vary\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 16:01
35	3	((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and ((US-3894186-\$ or US-6035009-\$ or US-5171930-\$ or US-4777649-\$ or US-6525255-\$ or US-5850051-\$ or US-5756918-\$ or US-5488196-\$ or US-5287789-\$ or US-5038658-\$ or US-4771671-\$ or US-4688464-\$ or US-4957552-\$ or US-5721390-\$ or US-5936180-\$ or US-5981860-\$ or US-5524060-\$ or US-5228098-\$ or US-5025703-\$ or US-5121669-\$).did. or (US-5025703-\$ or US-5121669-\$).did.) and (hysteresis (chang\$4 adjust\$4 manipulat\$4 alter\$4) ) same (upper lower higher limit threshold) with (extract\$4 with (amplitude volume intensity level)) and (sets\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold) and (speech song sing singing voice music) and (@ad @pd @prad <=19990810)) and threshold with (variable vary\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 16:02
36	5	((((amplitude volume intensity level) same (display\$4 SCREEN\$4) with (upper lower higher limit threshold) same (manipulat\$4 chang\$4 alter\$6 adjust\$4 alter\$6)) and (extract\$4 with (amplitude volume intensity level)) and (((amplitude volume intensity level) with (sets\$4 adjust\$4 manipulat\$4 designat\$4 alter\$6) with (upper lower higher limit threshold)) )) and (speech song sing singing voice music) and (@ad @pd @prad <=19990810)) and threshold with (variable vary\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 16:02

Best Available Copy